This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images, please do not report the images to the Image Problem Mailbox.

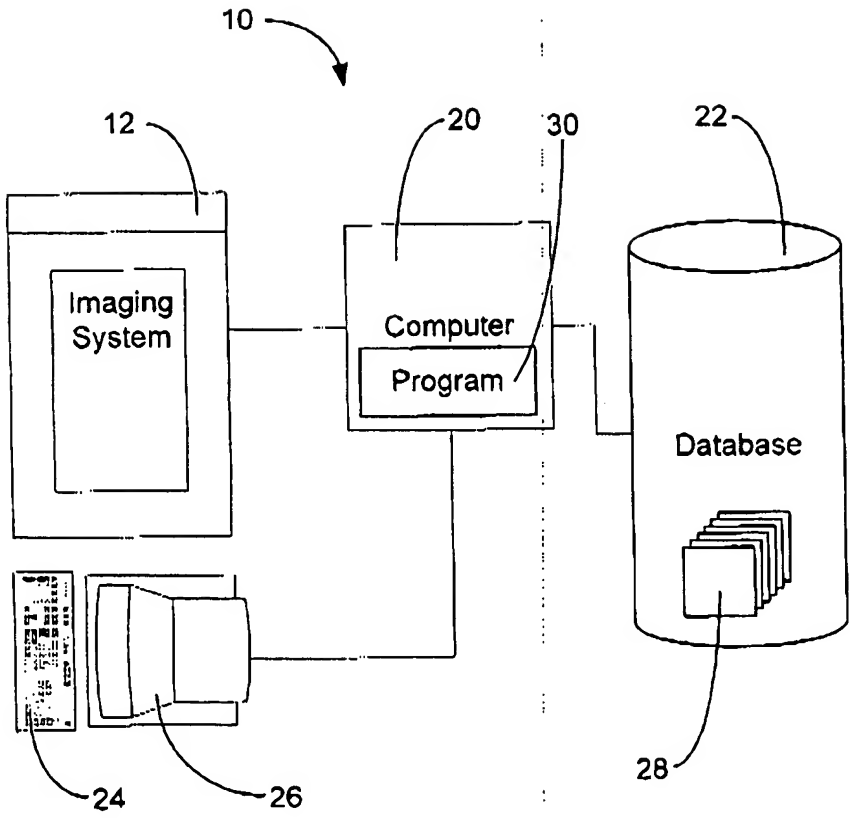
10
12
20
30
22
Imaging System
Computer
Program
Database
24
26
28

FIG. 1

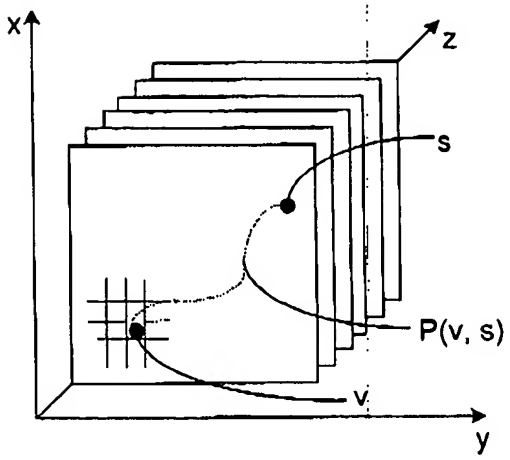
x
z
s
P(v, s)
v
y

FIG. 2

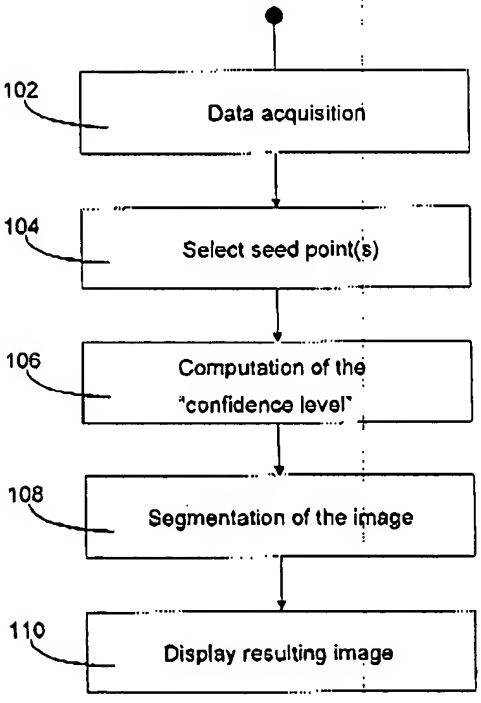
102
Data acquisition
104
Select seed point(s)
106
Computation of the "confidence level"
108
Segmentation of the image
110
Display resulting image

FIG. 3

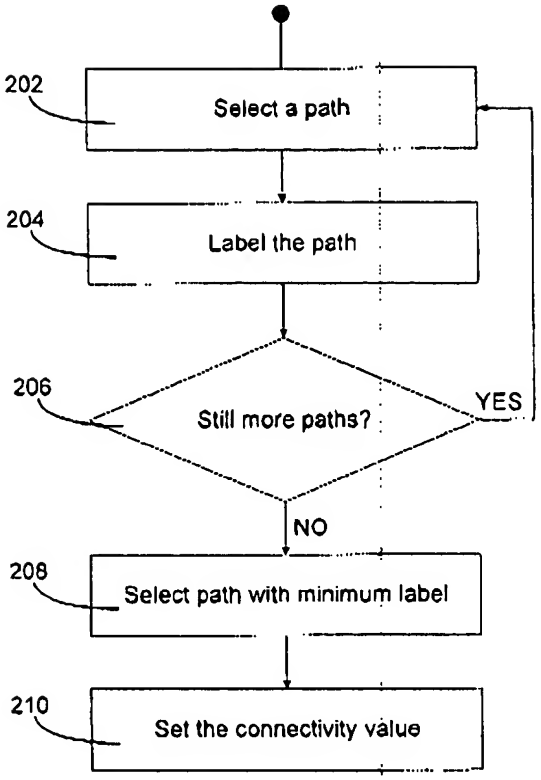
202
Select a path
204
Label the path
206
Still more paths?
YES
NO
208
Select path with minimum label
210
Set the connectivity value

FIG. 4

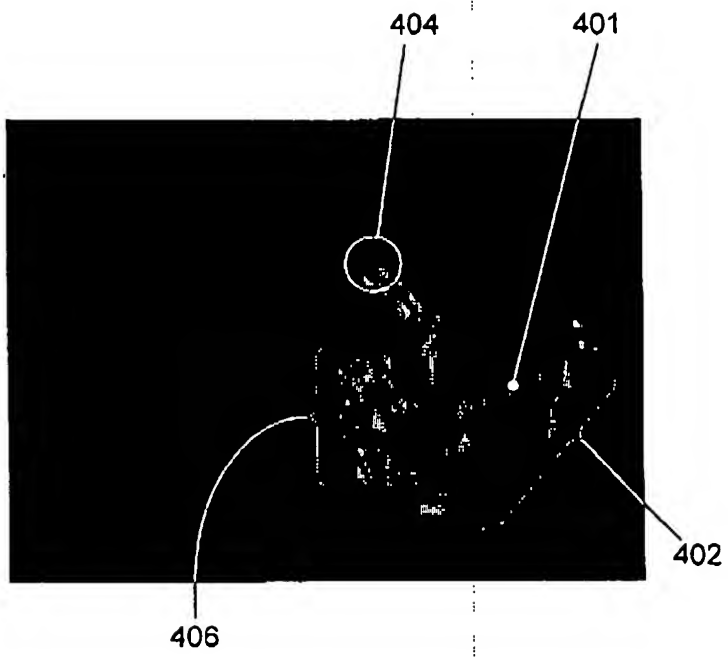

FIG. 5

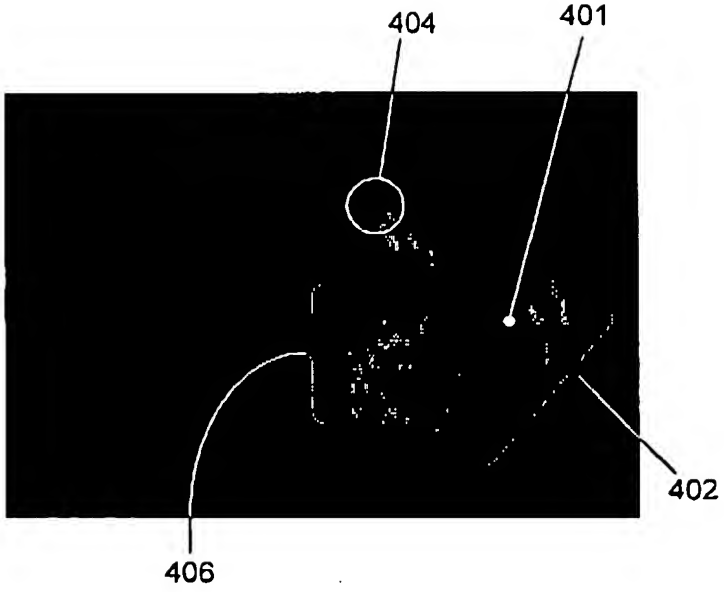

FIG. 6

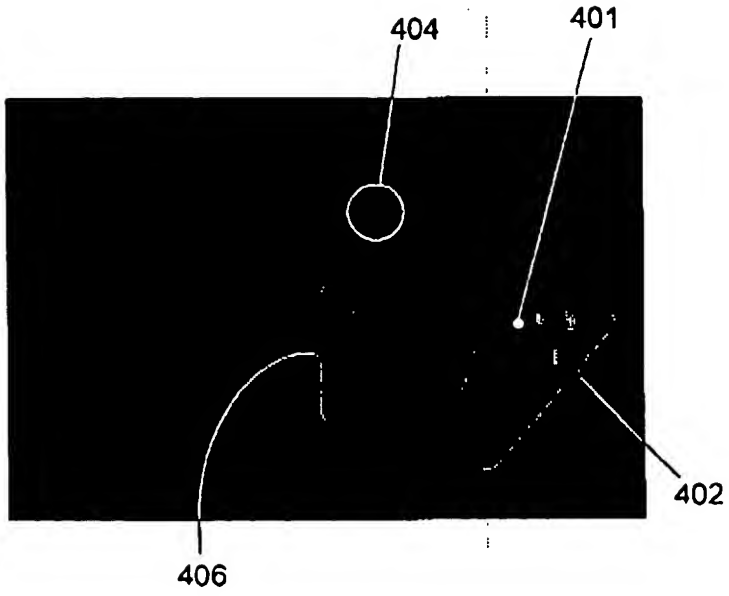
404
401
402
406

FIG. 7

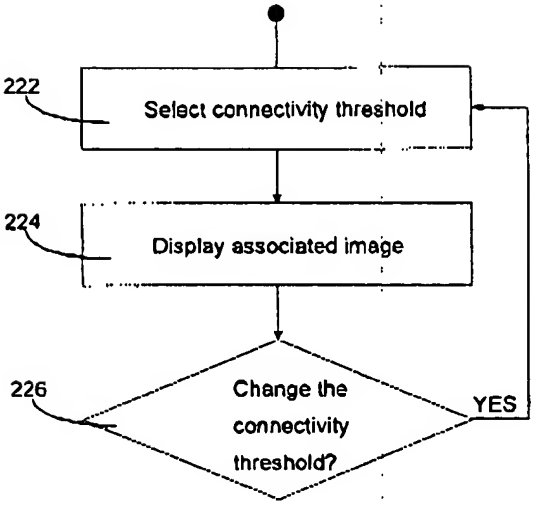
222
Select connectivity threshold
224
Display associated image
226
Change the connectivity threshold?
YES

FIG. 8

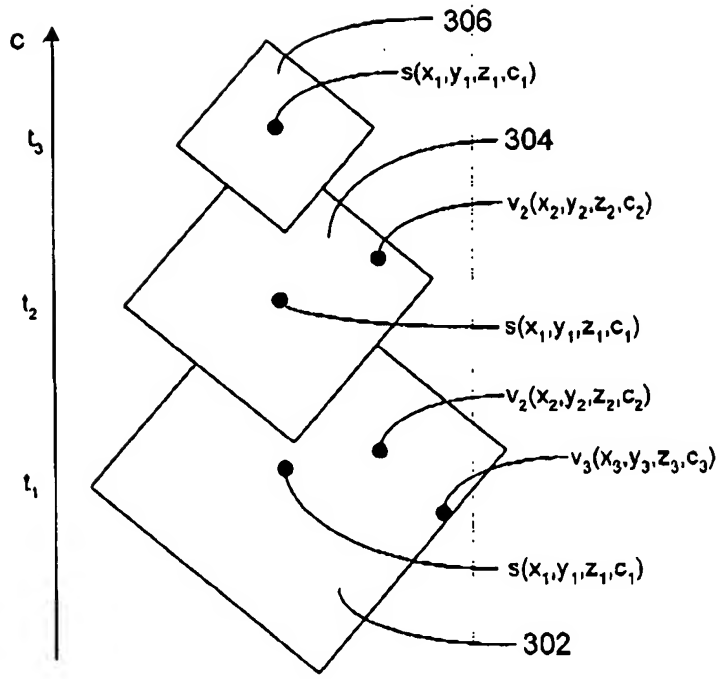

FIG. 9

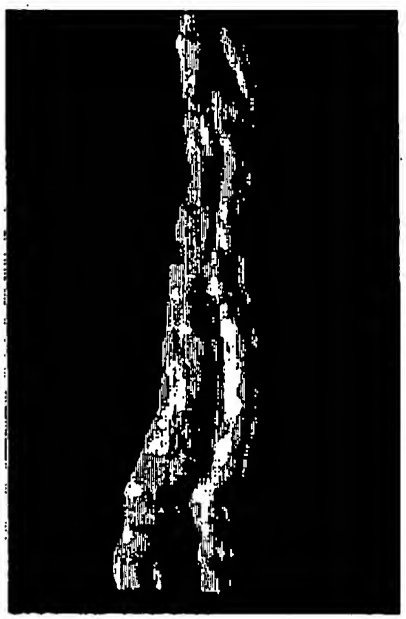

FIG. 10

FIG. 11

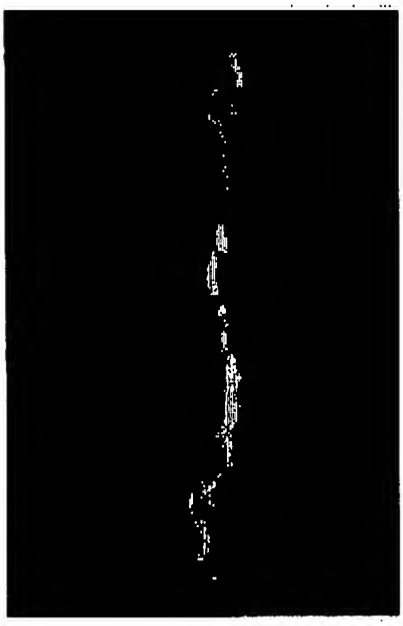

FIG. 12

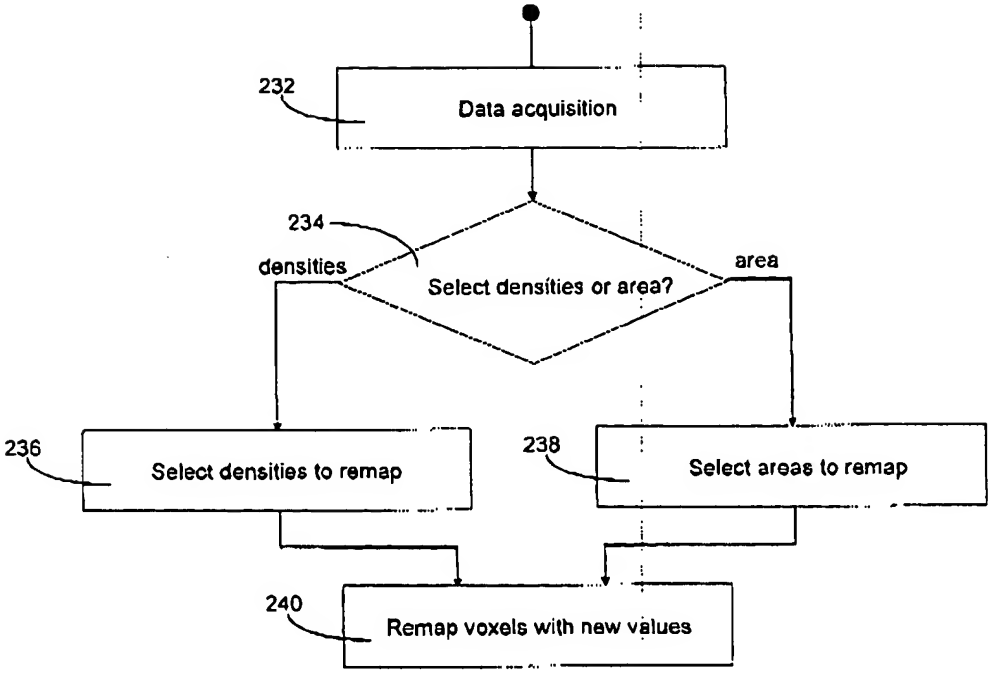
232
Data acquisition
234
densities
Select densities or area?
area
236
Select densities to remap
238
Select areas to remap
240
Remap voxels with new values

FIG. 13

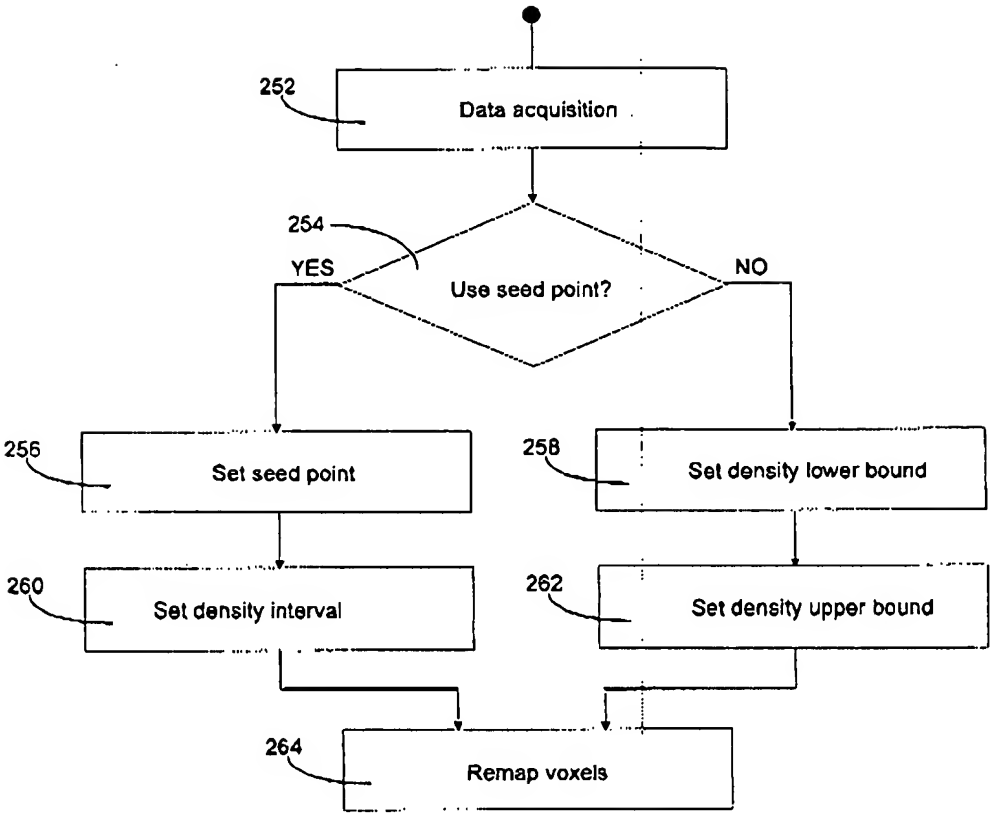
252
Data acquisition
254
YES
Use seed point?
NO
256
Set seed point
258
Set density lower bound
260
Set density interval
262
Set density upper bound
264
Remap voxels

FIG. 14

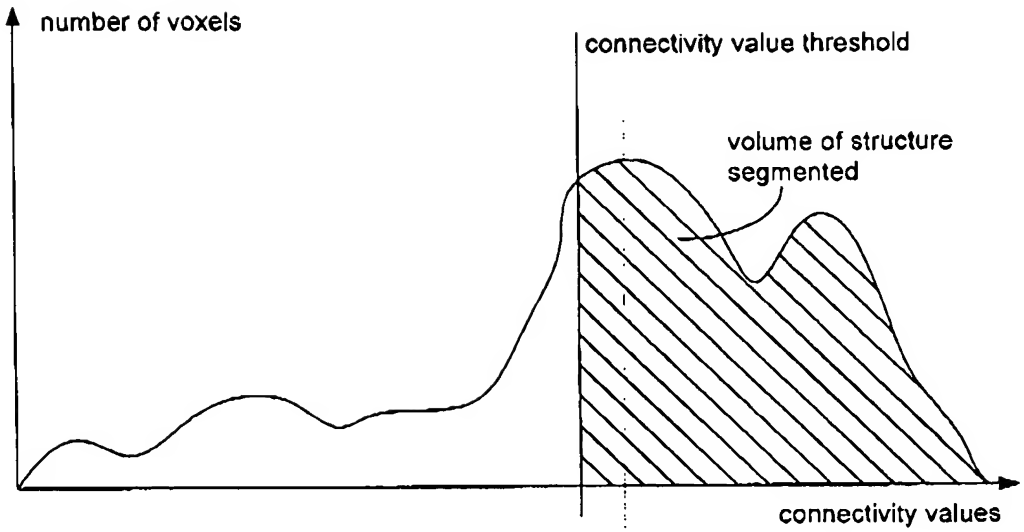
number of voxels
connectivity value threshold
volume of structure segmented
connectivity values

FIG. 15

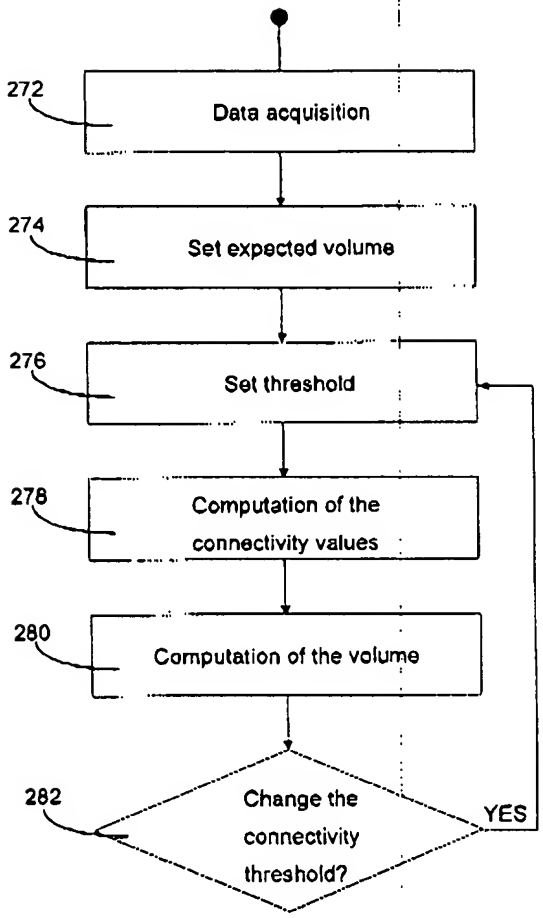
272
Data acquisition
274
Set expected volume
276
Set threshold
278
Computation of the connectivity values
280
Computation of the volume
282
Change the connectivity threshold?
YES

FIG. 16

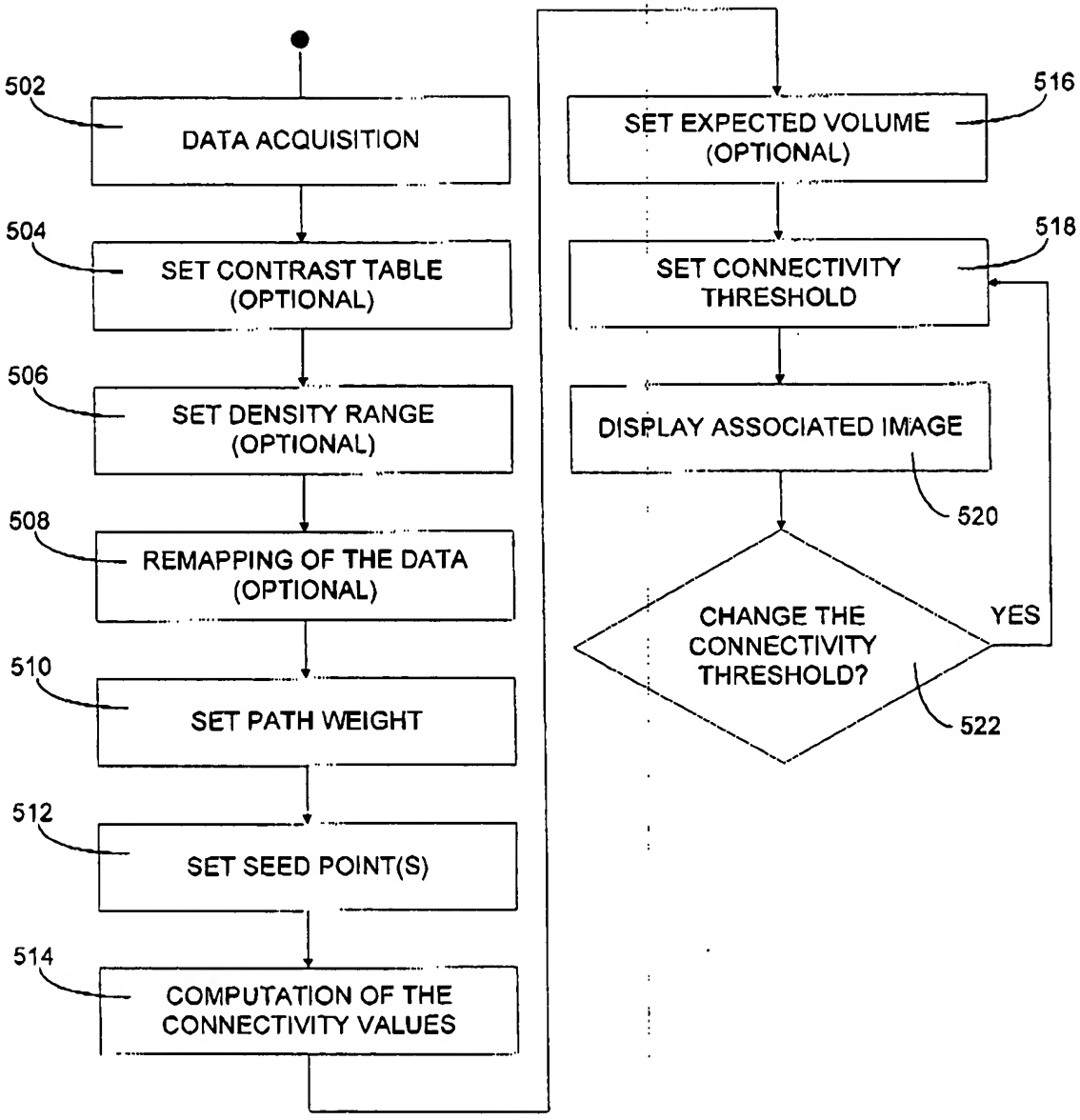
502
DATA ACQUISITION
504
SET CONTRAST TABLE (OPTIONAL)
506
SET DENSITY RANGE (OPTIONAL)
508
REMAPPING OF THE DATA (OPTIONAL)
510
SET PATH WEIGHT
512
SET SEED POINT(S)
514
COMPUTATION OF THE CONNECTIVITY VALUES
516
SET EXPECTED VOLUME (OPTIONAL)
518
SET CONNECTIVITY THRESHOLD
DISPLAY ASSOCIATED IMAGE
520
CHANGE THE CONNECTIVITY THRESHOLD?
YES
522

FIG. 17